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1919/20

Central State Normal School

A College for Teachers

QUARTERLY BULLETIN

Catalogue Number



EDMOND, OKLAHOMA

Announcement 1920-1921

Volume 5

October 1, 1920

Number 2

*Entered as Second Class Matter July 10, 1916, at the Post Office at Edmond,
Oklahoma, Under Act of August 24, 1912*

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WARDEN COMPANY, OKLAHOMA CITY



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CALENDAR

1920-1921

First Semester begins Tuesday September 7, 1920.

Christmas Holidays begin at the close of school work Friday, December 17, 1920.

Work will be resumed at eight o'clock Monday, December 27, 1920.

First Semester closes January 14, 1921.

Second Semester begins January 17, 1921.

Second Semester closes May 20, 1921.

*Summer Term—Half Semester—begins May 23, 1921.

Summer Term closes July 22, 1921.

*Classes will meet five days a week during the Summer Term.

Provision will be made in the schedule for students who have schools that begin late to enter at the beginning of the first semester and complete eight hours of work at the middle of the semester, or at the end of nine weeks.

Provision will, also, be made for students who have schools that close early to enter at the middle of the second semester and complete eight hours of work the last half of the second semester.

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Columbia University
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A. & M. College, Oklahoma
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University of Chicago
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N. Y. School of Fine and Applied Arts
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Hargrove Methodist College
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Student University of Oklahoma

PURPOSE

Central State Normal—A Standard Teacher's College—being supported by the State, recognizes as its plain duty and accepts as its function the training of students to become teachers in all types of schools supported or aided by state funds; to meet actually all the demands of the best in the public school system of the present, and to look into the near future and determine the improvements and reforms which the evolution of the public school system is to bring about, and to train teachers to be ready to take up this new work so that the students of Oklahoma may have the best that educational science has to offer at any and all times.

Edmond, the seat of Central State Normal School, is one of the most beautiful and progressive cities of the state. It is an ideal location for a great school, being the highest city in Oklahoma on the Santa Fe railroad and being only twelve miles from the State Capitol building. There is an abundant supply of the purest water from deep wells, of natural gas for heating and cooking, and electricity for lights and power. The supply of pure water and the complete sewage disposal system makes the

city especially sanitary. The two hundred thousand dollars worth of paving, which has been contracted for, is now being put down.

RAILWAY CONNECTIONS

Central is on the main line of the Santa Fe north and south through the state, which connects with the main lines of the Rock Island, Katy, Frisco, and Fort Smith & Western at Oklahoma City and Guthrie. These cities are connected by the Oklahoma Interurban, which runs hourly through Edmond from 6 o'clock in the morning until 12 o'clock at night. This makes it possible to reach Central in 45 minutes after arriving in Oklahoma City or Guthrie.

BOARD AND ROOM

Although the prices of board and room have advanced some during the last two years, good board and room can be secured as reasonable in Edmond as in most any town in the state. Edmond is a school town, and things are more reasonable than many of the towns where the interests of the people are more along financial lines.

MORAL AND RELIGIOUS INFLUENCE

The weekly assembly hour is usually opened with Bible readings and prayer by some local minister or some member of the faculty. The Y. M. C. A. and the Y. W. C. A. offer excellent opportunity for religious development among the students. Nearly all of the regular church organizations are represented in Edmond and have large and commodious buildings.

ORGANIZATIONS

Central Normal has over 2000 graduates scattered over the entire state. The Alumni Association meets annually at Central during Commencement week in the Spring. Sometimes special meetings are held at Oklahoma City at the time of the annual meeting of the Oklahoma Education Association.

Inter-collegiate athletic events at Central are under the general supervision of the State Athletic Association of which Central Normal has been a member since its organization.

DEBATING CLUBS

There are four debating clubs, two for men, the Arena and the Senate; two for women, the Triumvirate and T. O. K.

DRAMATIC

The Shakespeare and Criterion are women's dramatic clubs. The former presents one of Shakespeare's plays each semester. While the latter presents some modern play of general interest.

INTER-COLLEGIATE EVENTS

Aside from athletic events, mentioned elsewhere, there is a state reading contest between representatives of all the state normal schools and, also, a state debating contest between the same schools. In the debate the six normals are divided so that they debate in two triangles.

MUSICAL

In order to encourage music in the school there are the following organizations, a large chorus, a vocal quartette, a band and an orchestra.

OFFICERS AND ADVISERS OF CLASSES AND SOCIETIES

Each of the classes and societies has the aid and counsel of a member of the faculty, who is appointed by the President of the school.

Each class and society elects its own proper officers, who carry out the educational and business plans of the body.

DEAN OF WOMEN

The Dean of Women is always willing and anxious to advise any young woman regarding any question or difficulty which may arise. Students should feel free to consult her.

OPPORTUNITIES TO WORK

Many students at Central earn part of their expense money by working about the school, or in the homes and stores of the city. Students desiring such work would do well to file their names with the President.

BUILDING AND GROUNDS

The school occupies a campus of generous proportions adjoining the city of Edmond on the east. In addition to the beautiful grassy lawn, surrounded by shady walks, there is a well equipped playground for the Training School; a number of well kept tennis courts are always ready for use; and an excellent athletic field gives ample opportunity for physical exercises.

Old North Hall, the first building used by the school on the present campus, is the home of the Training School and the Domestic Science, Mathematics, and Manual Training Departments. The Library, a beautiful new building, in addition to furnishing ample reading room for the school, houses the Departments of Foreign Language, History, and Education. The Administration Building has the offices for the school, the assembly hall and the English and Science Departments.

The President's home, a beautiful brick structure, was recently erected on the southwest corner of the campus.

Central Hall, one of the best basket ball courts in the state, is located but a short way from the main buildings.

THE LIBRARY

The Library, located on the second floor of The Library Building, is one of the most beautiful in the state, as well as being well lighted and ventilated. It contains approximately 14,000 carefully selected volumes of reference books for general reading, bound magazines, government documents and pamphlets. The library is particularly rich in works bearing upon education and teaching. The reading room provides the leading periodicals of the day, daily newspapers and, by courtesy of the publishers, many of the weekly papers of the state. The library is primarily for reference work, and in every possible way it is attempting to facilitate research work, which is constantly increasing in prominence.

SPECIAL LECTURES AND ENTERTAINMENTS

In addition to the regular work offered during the year there will be a large number of lectures and entertainments given by the best artists and lecturers of the American platform. The large enrollment at Central enables the committee to secure several numbers of this character during the year. This is one of the best phases of the school life, and it is something that will be both pleasant and profitable to those who come to Central.

TUITION

There is no tuition in Central, but a fee of three dollars a semester, and two dollars for the Summer Term will be charged. This admits the students to all lectures, musical numbers, and athletic events given by the school.

GENERAL REGULATIONS

ENTRANCE REQUIREMENTS

Normal Preparatory Course: Entrance into the Normal preparatory may be gained by special examination or by presenting a diploma or certificate showing graduation from the eighth grade. In certain cases pupils of mature age who have been out of school for some years may, at the discretion of the president, be admitted on trial.

Normal College Course: Entrance into the Normal College may be gained upon completion of fifteen units from any accredited high school or preparatory department of an Oklahoma State Normal.

ADVANCED STANDING

Students may be admitted into advanced standing by examination or through credits obtained by attendance at an approved high school or college. Each student desiring to secure advanced standing by examination shall file one and only one application for such examination, which application shall state in detail the courses on which such examination is desired, and shall be passed on by the Classification Committee. The work done by students entering from high schools before graduation shall be evaluated by the Registrar of the school. No subject pursued in a high school course of any high school or preparatory department of a college shall shorten the Life Certificate course to fewer than sixty-two hours of work, but work done in an approved fifth year high school course shall be allowed credit not to exceed fifteen hours, in accordance with the practice of the University of Oklahoma.

No student shall be permitted to graduate from any course in the Oklahoma State Normal Schools without having completed at least thirty hours work in residence in the institution graduating him.

UNIT OF CREDIT DEFINED

A unit of credit in the high school department represents five recitations per week for thirty-six weeks.

CREDIT HOUR DEFINED

A credit hour is defined to be one hour of class room work a week, together with the necessary preparation therefor, for a semester of eighteen weeks.

MAXIMUM AMOUNT OF WORK

High School Department: Students in the high school department will be permitted to take four subjects.

Normal College: Students shall not be permitted to carry more than sixteen hours work during any semester, except with the permission of the Committee on Advanced Standing, which permission shall not be granted except for exceptionally good work on the part of the student applying for additional work.

CERTIFICATES

One Year State Certificate: The One-Year State certificate will be granted by the State Board of Education to students who have been in attendance at one of the State Normal Schools at least two terms, who have completed the equivalent of the first two years of the high school course, including two terms of High School Pedagogy.

Two Year State Certificate: The Two-Year State certificate will be granted by the State Board of Education to students who have been in attendance at one of the State Normal Schools at least four terms, and who have completed fifteen units, including one unit of High School Pedagogy, provided that high school graduates who enter Normal Schools may be granted two-year State certificates when they have been in residence four terms and have completed eight hours of Education.

Life Certificate: A Life Certificate may be granted to students who have met the college entrance requirements, completed thirty hours of college work in residence at any of the State Normal Schools of Oklahoma, and who have sixty-two hours of college work, including not less than sixteen nor more than twenty hours in the major chosen, ten hours in the minor chosen, and the following designated subjects: Education 1, 2, 7, 9, 4, 11 and 12; English 1, 5 and 6; History 7, 8 and 38; and Physical Education 2 hours.

REQUIREMENTS FOR DEGREE

In order to receive a degree from any of the Oklahoma Normal Schools, the applicant must complete one hundred twenty-four semester hours of college credit after having completed fifteen units of work in any approved high school. Four hours of physical education are required. At least thirty hours of the work must be done in the institution which confers the degree.

EVALUATION OF NORMAL SCHOOL CREDITS

All Normal School credits of College rank will be given two and one-half semester hours credit in the College Department under the new plan.

All Normal School credits of High School rank will be given one-third unit credit.

RENEWAL OF CERTIFICATES

One-Year State Certificate: The One-Year State certificate is renewable before expiration for the period of its original validity upon the endorsement of the County Superintendent under whom the holder has taught that the teaching has been successful and upon the further endorsement of the President of the Oklahoma State Normal originally recommending the issuance of the certificate, that the holder has taken not fewer than nine weeks, or forty-five days, of residence work and has made credit in four subjects in the Normal School since the certificate was issued.

Two-Year State Certificate: The Two-Year State certificate may be renewed when the holder has furnished satisfactory evidence of one full year's residence at the institution which granted the original certificate, upon satisfactory evidence of successful teaching, and upon the recommendation of the President of the institution issuing the original Two-Year State certificate, provided the year's work is done during the life of the certificate.

CORRESPONDENCE COURSES

HIGH SCHOOL SUBJECTS

One-third unit of credit will be given in the following correspondence courses in the Normal Schools of Oklahoma.

	Number of Courses Offered		Number of Courses Offered
Civics	1	Commercial Geog.	1
American History	2	American Literature	2
Ancient History	1	Agriculture	1
Medieval History	1	Physiology	1
Modern History	1	Physical Geography	1
Arithmetic	1	Penmanship	1
Grammar	2	Drawing	1
Rhetoric	2	English Literature	2

COLLEGE SUBJECTS

Two and one-half hours credit will be given for the following courses:

14 Rural Problems	1 Psychology
23 Rural Sociology	2 Psychology
16 History of Education	1 Zoology
7 Pedagogy	1 Botany
8 Pedagogy	15 Economics

A fee of \$6.00 will be charged for each course. For further information address Director of Correspondence.

NORMAL SCHOOL GRADES FOR COUNTY

CERTIFICATES

In accordance with Section 9, Article 14, Senate Bill 73, known as the School Code, and in accordance with the ruling of the State Board of Education under the above law, credits in the subjects given below may be certified in lieu of an examination grade in the subjects designated, provided the grade has been made in a State Normal School during the past three years, and represents all that is required in that subject for graduation.

Subject:

Agriculture, one unit
 Algebra, one unit
 American Literature, one unit
 Arithmetic, one-half unit
 Civics and Oklahoma History,
 one-half unit
 Rhetoric and Composition, one-half
 unit (or Composition 5)
 Domestic Science, one unit
 Ancient History, or
 Modern History, one unit

Certified as:

Agriculture
 Algebra
 American Literature
 Arithmetic
 Civics and Okla. History
 Composition
 Domestic Science
 General History

Subject	Certified As:
Commercial Geography, one-half unit (or Physical Geography, one-half unit)	Geography
Grammar and Composition one-half unit, (or Grammar 4)	Grammar
Music, one-half unit	Music
Orthography, one-half unit	Orthography
Penmanship, one-half unit	Penmanship
Psychology, one-half unit (or Psychology 1 and 2)	Psychology
Physics, one unit	Physics
Physiology, one-half unit	Physiology
Reading, one-half unit	Reading
Pedagogy, one-half unit (or Education 7 and 8)	Theory and Practice
American History, one-half unit	United States History

PREPARATORY DEPARTMENT

In order to complete the Preparatory Department of the Oklahoma Normal School, students are required to have three units in English; three units in mathematics, foreign language, history or science; two units in two of the following: Mathematics, foreign language or science; and five electives.

The following courses will be offered in the high school department of the Normal School. These classes will meet five times a week, and one half unit credit will be given where the course runs for eighteen weeks, and one unit where it runs for thirty-six weeks.

ENGLISH

First Year	Rhetoric and composition	One unit
Second Year	Rhetoric and composition	One unit
Third Year	American Literature with readings	One unit
Fourth Year	English Literature with readings	One unit
Any Year	Orthography	One-half unit
Any Year	Reading	One-half unit

FOREIGN LANGUAGE

French, from one to four years	One unit for each year
Latin, from one to four years	One unit for each year
Spanish, from one to four years	One unit for each year

HISTORY AND GOVERNMENT

First Year	Ancient History	One unit
Second Year	Modern History	One unit
Third Year	English History	One unit
Fourth Year	American History	One-half unit
	Civics	One-half unit

MATHEMATICS

First Year	Algebra through quadratics	One unit
Second Year	Plane Geometry	One unit
Third Year	Algebra from quadratics	One-half unit
	Solid Geometry	One-half unit
Fourth Year	Arithmetic	One-half unit

PROFESSIONAL SUBJECTS

Fourth Year	Methods of teaching	One-half unit
Fourth Year	Psychology	One-half unit

SCIENCE

First Year	Physical Geography	One-half unit
First Year	General Science	One-half unit
Any Year	Domestic Science	One unit
Any Year	Manual Training	One unit
Third or Fourth Year	Physics	One unit
Fourth Year	Chemistry	One unit
Fourth Year	Physiology	One-half unit

SPECIAL SUBJECTS

(Any Year)

Public School Music	One-half unit	Art	One unit
Piano	One unit	Penmanship	One-half unit

COLLEGE DEPARTMENT

THE CURRICULUM

<i>Group</i>	<i>Department</i>
I. English	English Language and Literature
II. Ancient Languages	Public Speaking
III. Modern Languages	Latin
IV. Mathematics	Greek
V. Physical Sciences	French Language and Literature
VI. Biological Sciences	Spanish Language and Literature
VII. History and Government	Mathematics
VIII. Education	Physics
IX. Miscellaneous	Chemistry
	Botany
	Zoology
	Physiology
	History
	Government
	Economics
	Sociology
	Psychology
	Education
	Rural Education
	Training Department
	Home Economics
	Agriculture
	Manual Arts
	Music
	Physical Education

Degree and Hour.

In order to receive a degree from any of the Oklahoma Normal Schools, the applicant must complete one hundred twenty

four semester hours of college credit after having completed 15 units of work in an approved high school. Four hours of physical education are required. At least thirty hours of the work must be done in the institution which confers the degree.

An hour as here used is defined to be one hour of class room work a week, together with the necessary preparation therefor, for a semester of eighteen weeks.

The School Year.

The school year shall consist of five terms of nine weeks each; the first two terms shall constitute the first semester; the second two terms, the second semester; the summer term a half semester.

Amount of Work Taken.

Students shall not be permitted to carry more than sixteen hours work during any semester except with the permission of the committee on advanced standing, which permission shall not be granted except for exceptionally good work on the part of the student applying for additional work.

Purpose of the Work Offered.

Oklahoma Normal Schools offer work for the purpose of training the following types of teachers: Rural, Primary Grade, Intermediate Grade, Junior High School, Senior High School, and Special Teachers. The primary purpose of all courses offered is to train teachers for specific types of service in the public schools of this state.

Admission to College Courses.

Admission to the college courses in the normal schools shall be permitted only upon the completion of 15 units of high school work on the part of the student seeking admission. A unit of work as here used is defined to mean a year of work in one subject in an accredited high school or its equivalent as defined by the State High School Inspector.

The Group Elective System.

In selecting studies for graduation, the group elective system is to be followed, the groups being explained hereafter in this outline.

Credits to be Given for Work.

For subjects in which classes meet five times a week for a term of nine weeks, two and one-half hours of credit are to

be given; for those that meet four times a week, two hours; for those that meet twice a week, one hour.

Class Periods.

All class periods shall be one hour in length, this includes transitions from class to class.

Faculty Advisors to Determine Electives.

In all cases where electives are permitted it is the intent of these regulations that the student shall select studies with the advice and consent of the heads of the departments in which he is doing his major and minor work.

Accredited High School.

Wherever the term "Accredited High School" is used, it is interpreted to mean a school which is approved by the State High School Inspector.

Work Required in the Department of Education.

Students desiring to receive a state certificate at the completion of two years of college work, must take at least fifteen semester hours of work in Education. Those who desire to be granted a degree at the completion of four years of college work must take at least twenty-five hours in the Department of Education.

RURAL TEACHERS' COURSE

This course is designed specifically to prepare teachers for the rural schools and schools located in villages with a distinctly rural environment.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	2 hr. cr.	Rural School Prob-	
English 5	" "	lems 14	2 hr. cr.
Farm Mechanics or		English 6	" "
Domestic Art	" "	Physical Education 1	1 "
Electives	" "	Electives	3 "
<hr/>		<hr/>	
Total	8	Total	8

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	2 hr. cr.	Psychology 2	2 hr. cr.
English 1	" "	Agriculture 6	" "
Agriculture 5	" "	Public School Music 1	" "
Electives	" "	Electives	" "
<hr/>		<hr/>	
Total	8	Total	8

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Observation and		Observation and	
Prac. 11	2½ hr. cr.	Pract. 12	2½ hr. cr.
American Hist. 7	2 "	American History 8	2 "
Psych. and Ped. of the		Rural Sociology 23	" "
Elementary Sub. 13	" "	Electives	1½ "
Phys. Ed. and Elec.	1½ "		
<hr/>		<hr/>	
Total	8	Total	8

Second Semester

FIRST TERM		SECOND TERM	
Botany 1 a	2 hr. cr.	Botany 1 b	2 hr. cr.
Teachers' Course	" "	Hist. of Am. Ed. 9	" "
Government 28	" "	Physical Ed. 1	1 "
Electives	" "	Electives	3 "
<hr/>		<hr/>	
Total	8	Total	8

PRIMARY TEACHERS' COURSE

This course prepares teachers for the primary grades in the public schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	2 hr. cr.	Primary Ed 28	2 hr. cr.
English 5	" "	English 6	" "
Drawing 1	" "	Physical Ed.	1 "
Electives	" "	Electives	3 "
<hr/>		<hr/>	
Total	8	Total	8

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	2 hr. cr.	Education 30	2 hr. cr.
English 1	" "	Psychology 2	" "
Primary Ed. 29	" "	Pub. School Music 1	" "
Electives	" "	Plays and Games 1	" "
<hr/>		<hr/>	
Total	8	Total	8

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Obs. and Prac. 11	2½ hr. cr.	Obs. and Prac. 12	2½ hr. cr.
American Hist. 7	2 "	American Hist. 8	2 "
Children's Lit. and		Primary Handwork 2	
Story Telling	" "	(Ind. Art)	" "
Electives	1½ "	Drawing 1	1½ "
<hr/>		<hr/>	
Total	8	Total	8

Second Semester

FIRST TERM		SECOND TERM	
Child Psych 5	-----2 hr. cr.	Hist. of Am. Ed. 9	-----2 hr. cr.
Government 38	-----" "	Plays and Games 2	-----" "
Music 2	-----" "	Electives	-----4 "
Electives	-----" "		
<hr/>		<hr/>	
Total	-----8	Total	-----8

The number indicates the number of the course in its department.

INTERMEDIATE GRADE TEACHERS' COURSE

This course prepares teachers for the intermediate grades in the elementary schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	-----2 hr. cr.	Hist. of Am. Ed. 9	-----2 hr. cr.
English 5	-----" "	English 6	-----" "
Manual Training 8 or		Manual Training 9 or	
Home Economics 1	-----" "	Home Economics 2	-----" "
Electives	-----" "	Physical Education and	
		Electives	-----" "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	-----2 hr. cr.	Psychology 2	-----2 hr. cr.
English 1	-----" "	Ped. and Psych. of Com.	
Pub. School Music	-----" "	Branches 13	-----" "
Electives	-----" "	Music 2	-----" "
		Physical Ed. and	
		Electives	-----" "
<hr/>		<hr/>	
Total	-----8	Total	-----8

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Obs. and Prac. 11	---2½ hr. cr.	Observation and	
American History 7	---2 "	Practice 12	-----2½ hr. cr.
Story Telling and		American History 8	---2 "
Literature	-----" "	Elementary Handwork 2	---" "
Physical Ed. and Elec.	---1½ "	Electives	-----1½ "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Child Psychol. 5	2 hr. cr.	Teachers' Course	2 hr. cr.
Government 38	" "	Drawing	" "
Drawing 1	" "	Electives	4 "
Electives	" "		
Total		Total	
8		8	

HOME ECONOMICS COURSE

This course prepares for teaching home economics in the elementary schools and in junior high schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	2 hr. cr.	Hist. of Am. Ed. 9	2 hr. cr.
English 5	" "	English 6	" "
Home Economics 1	" "	Home Economics 2	" "
Household Chemistry	" "	Household Chemistry	" "
Total		Total	
8		8	

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	2 hr. cr.	Psychology 2	2 hr. cr.
English 1	" "	Physical Education	1 "
Home Economics 3	" "	Electives	5 "
Electives and Physical Education	" "		
Total		Total	
8		8	

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Observ. and Prac. 11	2½ hr. cr.	Observ. and Prac. 12	2½ hr. cr.
American History 7	2 "	American History 8	2 "
Home Economics 13	" "	Applied Art 10	" "
Phys. Ed. and Electives	1½ "	Physical Ed. and Electives	1½ "
Total		Total	
8		8	

Second Semester

FIRST TERM		SECOND TERM	
Interior Decoration 18	2 hr. cr.	Teachers' Domestic Science 21	2 hr. cr.
Government 38	" "	Textiles 15	" "
Physical Ed.	1 "	Electives	4 "
Electives	3 "		
Total		Total	
8		8	

PUBLIC SCHOOL MUSIC COURSE

This course prepares teachers for the supervision of music in the public schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	-----2 hr. cr.	Hist. of Am. Ed. 9	-----2 hr. cr.
English 5	-----" "	English 6	-----" "
Public School Music 1	-----" "	Music 2	-----" "
Electives	-----" "	Physical Ed. and Electives	-----" "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	-----2 hr. cr.	Psychology 2	-----2 hr. cr.
English 1	-----" "	Harmony 4	-----" "
Music 3	-----" "	Physical Ed. 1	-----1 hr. cr.
Electives	-----" "	Electives	-----3 "
<hr/>		<hr/>	
Total	-----8	Total	-----8

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Observation and Prac. 11	-----2½ hr. cr.	Observation and Prac. 12	-----2½ hr. cr.
American History 7	-----2 "	American History 8	-----2 "
Elementary Harmony 2	-----" "	Harmony 16	-----" "
Electives	-----1½ "	Physical Ed. and Electives	-----1½ "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Child Psychology 5	-----2 hr. cr.	Teachers' Course 7	
Government 38	-----" "	or 10	-----2 hr. cr.
Harmony 17	-----" "	History of Music 6	-----2 hr. cr.
Electives	-----" "	Phys. Ed. and Electives	-----4 "
<hr/>		<hr/>	
Total	-----8	Total	-----8

DRAWING TEACHERS' COURSE

This course prepares teachers to teach or supervise drawing in the public schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	-----2 hr. cr.	Hist. of Am. Ed. 9	-----2 hr. cr.
English 5	-----" "	English 6	-----" "
Drawing 2	-----" "	Drawing 2	-----" "
Electives	-----" "	Phys. Ed. and Electives	-----" "
Total -----8		Total -----8	

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	-----2 hr. cr.	Psychology 2	-----2 hr. cr.
English 1	-----" "	Drawing 4	-----" "
Drawing 3	-----" "	Physical Ed.	-----1 "
Electives	-----" "	Electives	-----3 "
Total -----8		Total -----8	

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Observation and Prac. 11	-----2½ hr. cr.	Observation and Prac. 12	-----2½ hr. cr.
American History 7	-----2 "	American History 8	-----2 "
Landscape Sketching 5	-----" "	Landscape Painting 6	-----" "
Electives	-----1½ "	Phys. Ed. and Electives	-----1½ "
Total -----8		Total -----8	

Second Semester

FIRST TERM		SECOND TERM	
Child Psych. 5	-----2 hr. cr.	Theo. and Prac. of Teaching Art. 16	-----2 hr. cr.
Government 3	-----" "	Hist. of Painting 10	-----" "
Home Decoration 14	-----" "	Electives and Phys. Education	-----4 "
Electives	-----" "		
Total -----8		Total -----8	

MANUAL TRAINING TEACHERS' COURSE

This course is designed to prepare teachers for the departments of Manual Training in the public schools of this state.

FIRST YEAR

First Semester

FIRST TERM		SECOND TERM	
Education 7	-----2 hr. cr.	Hist. of Am. Ed. 9	-----2 hr. cr.
English 5	-----" "	English 6	-----" "
Manual Training 8	-----" "	Manual Training 9	-----" "
Electives	-----" "	Physical Education and Electives	-----" "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Psychology 1	-----2 hr. cr.	Psychology 2	-----2 hr. cr.
English 1	-----" "	Mech. Drawing 22	-----" "
Manual Training 10	-----" "	Physical Education	-----1 "
Mech. Drawing 21	-----" "	Electives	-----3 "
<hr/>		<hr/>	
Total	-----8	Total	-----8

SECOND YEAR

First Semester

FIRST TERM		SECOND TERM	
Observation and Prac. 11	-----2 hr. cr.	Observation and Practice 12	-----2½ hr. cr.
American History 7	-----" "	American History 8	-----2 "
Man. Training 11	-----" "	Manual Training 12	-----" "
Physical Education and Electives	-----1½ "	Physical Education and Electives	-----1½ "
<hr/>		<hr/>	
Total	-----8	Total	-----8

Second Semester

FIRST TERM		SECOND TERM	
Government 38	-----2 hr. cr.	Organization and Adm. of Ind. Arts 2 or 1 b	-----2 hr. cr.
Organization and Adm. of Industrial Arts 1	-----" "	Farm Mechanics 6	-----" "
Farm Mechanics 5	-----" "	Electives	-----4 "
Electives	-----" "	<hr/>	
<hr/>		Total	-----8
Total	-----8	Total	-----8

JUNIOR HIGH SCHOOL TEACHERS' COURSE

This course prepares teachers for work in the junior high schools or for departmental teaching in the upper grades or in the smaller high schools.

General Requirements: English, 6 hours, 1, 5, and 6; Education, 15 hours, courses 7, 9, 1, 2, 11, 12 and 4; Physical Education, 2 hours; American History, 6 hours, courses 7, 8 and 38.

A major group of ten hours each from any two subjects in which a major is offered, making twenty hours in all.

Hours.	
English -----10	} 20 hrs.
History -----10	
Biological Sciences--10	
Physical Science ---10	
Mathematics -----10	
Languages -----10	
Household Arts ----10	
Manual or Industrial 10	

A minor group selected from the following, ten hours constituting the group.

Hours.	
Methods of Teaching 4	} 10 hrs.
Plays and Play-ground Supervision 2	
General Science -----4	
Elementary Social ---4	
Public Speaking -----2	
Political Science ----4	
Economics -----4	
Free Electives -----3	

Total for the course, 62 hours.

GENERAL COLLEGIATE COURSE FOR TEACHERS IN SENIOR HIGH SCHOOLS

This course prepares for teaching in fully accredited high schools; it is a four year college course, requiring the completion of 124 college hours work. Four of these hours must be in Physical Education. The course is planned for the preparation of high school teachers majoring in Biology, English, Education, Foreign Languages, History, Mathematics, Physical Science, Agriculture, Industrial Arts, and Home Economics.

Students taking this course and expecting to receive a life certificate at the end of the second year, must offer not less than sixteen nor more than twenty hours in the major chosen; they must offer ten hours in their minor; fifteen hours in Education as follows: 1, 2, 7, 9, 4, 11, 12; English, 5 and 6; Hist., 7, 8 and 38, 6 hours; and two hours in Physical Education. Seven hours of free electives are required also, making sixty-two hours in all.

For completing the full four years course, leading to the Bachelor's degree, the student must take thirty hours of work education, six hours in English, six hours of history and government, four hours of Physician education, and forty-one hours of electives, making 124 hours in all. It is provided that the courses named above for completion of the life certificate course must be a part of the work for a bachelor's degree.

FRESHMAN YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours.		Hours.
Biology	2 or 4	Psychology	2
Chemistry	2 or 4	Major Subject Chosen	4
English	4	Electives	9
Foreign Languages	4	Physical Education	1
History	2 or 4		
Mathematics	2 or 4	Total	16
Geography	2 or 4		
Physical Education	1		
	<hr/>		
Total	16		

SOPHOMORE YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours.		Hours.
Elementary Education	2	Education	2
General Education	4	Major Subject Chosen	4
Major Subject Chosen	4	Physical Education	1
Physical Education	1	Electives	9
Electives	5		
	<hr/>		
Total	16	Total	16

JUNIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours.		Hours.
Education	4	Education	2
Major Subject	4	Major Subject	4
Electives	7	Electives	8
	<hr/>	Physical Education	1
Total	15	Total	15

SENIOR YEAR

FIRST SEMESTER		SECOND SEMESTER	
	Hours.		Hours.
Teaching -----	2 ½	Practice Teaching -----	2 ½
Education -----	2	Education -----	2
Major Subject -----	4	Major Subject -----	4
Electives -----	6 ½	Electives -----	6 ½
<hr/>		<hr/>	
Total -----	15	Total -----	15

COURSES FOR SPECIAL TEACHER AND SUPERVISORS IN HIGH SCHOOL

These courses are for the purposes of preparing supervisors of special subjects in the high schools, and for the purpose of training departmental teachers in those schools which make a specialty of special subjects.

Courses of instruction are divided into the groups listed below. In these groups special emphasis is placed on a subject called the major subject. Thirty semester hours of work constitutes a major in a subject. Students must also meet the requirements in English, Education, History and Physical Education as provided for in the general collegiate course. Students who wish to graduate from the degree course must choose their major not later than at the beginning of the junior year.

INDUSTRIAL ARTS		HISTORY	
	Hours.		Hours.
Industrial -----	40	History -----	30
Professional (Ed.) -----	25	Education -----	25
English -----	6	Biology -----	8
History -----	6	English -----	12
Mathematics -----	8	Mathematics -----	4
Physical Science -----	6	Physical Science -----	8
Physical Education -----	4	Physical Education -----	4
Drawing -----	14	Electives -----	33
Elective -----	15	<hr/>	
<hr/>		<hr/>	
Total -----	124	Total -----	124

DOMESTIC SCIENCE

	Hours.
Domestic Science -----	30
Domestic Art -----	10
Professional Education -----	25
Biology -----	12
Physical Science -----	12
English* -----	6
History -----	6
Physical Education -----	4
Electives -----	19
<hr/>	
Total -----	124

ENGLISH

	Hours.
English -----	30
Education -----	25
Biology -----	2
History -----	12
Mathematics -----	4
Physical Science -----	8
Physical Education -----	4
Electives -----	33
<hr/>	
Total -----	124

BIOLOGY

	Hours.
Biology -----	30
Education -----	25
English -----	6
History -----	6
Mathematics -----	4
Physical Education -----	4
Physical Science -----	8
Electives -----	41
<hr/>	
Total -----	124

FOREIGN LANGUAGES

	Hours.
Language -----	30
Education -----	22
English -----	12
History -----	8
Mathematics -----	4
Physical Science -----	4
Biology -----	4
Physical Education -----	4
Electives -----	33
<hr/>	
Total -----	124

PHYSICAL SCIENCES

	Hours.
Physical Science -----	30
Education -----	25
Biology -----	8
English -----	6
History -----	6
Mathematics -----	8
Physical Education -----	4
Electives -----	37
<hr/>	
Total -----	124

PROFESSIONAL TRAINING

	Hours.
Education -----	30
History -----	8
Physical Science -----	10
Biology -----	10
English -----	8
Physical Education -----	4
Electives -----	47
Teaching -----	5
Public Speaking -----	2
<hr/>	
Total -----	124

MATHEMATICS		AGRICULTURE	
	Hours.		Hours.
Mathematics -----	30	Agriculture -----	40
Education -----	25	Education -----	25
Physical Science -----	12	English -----	6
Biological Science -----	8	Physical Science -----	6
English -----	6	History -----	6
History -----	6	Mathematics -----	8
Philosophy of Education -----	4	Physical Education -----	4
Electives -----	33	Mechanical Arts -----	14
		Electives -----	15
<hr/>		<hr/>	
Total -----	124	Total -----	124

AGRICULTURE

1. *Animal Husbandry.*

This course consists of a study of the different breeds of horses, cattle, sheep and swine. Students taking this course will have opportunity to study each breed of our important farm animals as to origin, history, development, and use. Considerable practical work in judging and first-hand study of animals is required. Two hours credit.

2. *Farm Dairying.*

A general survey of the field of dairying, including a study of dairy breeds of cattle, dairy barns, secretion of milk, feeding, milking, milk records, care of milk, marketing dairy products, the Babcock test for butterfat, improving the dairy herd, and farm butter making. Two hours credit.

3. *Poultry Husbandry.*

A practical course in poultry keeping for active and prospective teachers who are interested in the agitation of interest for the betterment of thrift and agricultural conditions of Oklahoma. This course treats of such phases of the poultry industry as boy's and girl's poultry clubs, the foundation for success in poultry keeping, the birds, hatching and raising chickens, housing, feeding, marketing poultry products, sanitation, diseases of fowls, judging fowls, the poultry show, the business of poultry keeping. This is an excellent course for the housekeeper, the business man, the teacher, and the farmer. Credit two hours.

4. *Vegetable Gardening.*

This course includes a study of the general principles of vegetable culture, the home, school and farm garden,

garden soils, preparation of seed beds, fertilizers, planting plans, hot-beds and cold frames, marketing garden produce, storing vegetables, and keeping garden records. Credit two hours.

5. *Agronomy.*

A general study of the principal field crops of Oklahoma. Such problems as characteristics of the various field crops, adaptation, culture, harvesting, and marketing are studied in this course. Much time is spent in seed identification, testing, selecting seed, and grain-judging. Two hours credit.

6. *Soils.*

The course deals with such problems as: plant food, the relation of the plant to the soil, how soil fertility is lost by drainage, manures, rotation of crops, soil improvement, soil management, and the crops best adapted to different types of soils. Credit two hours.

7. *Soil Fertility.*

This course deals with such problems as: plant food, biological processes in soil study. Students are required to test the effect of barnyard, green and the various forms of commercial fertilizers on growing crops in the college demonstration plats. Effect of the common systems of farming in Oklahoma and the kind of fertilizer best for the soils of our state. Credit two hours.

8. *Agronomy, Forage Crops.*

The history, origin, culture, use of the important forage crops. Much attention is given to the study of sorghums, legume crops, grass crops, and cereal crops produced in Oklahoma. Two hours credit.

9. *Farm Management.*

A study of the principles of farm management, types of farms, planning farm buildings, fences, arranging the fields, studying permanent and temporary fixtures for barns and out-buildings, size of farm in relation to profit, and the use of livestock in permanent agriculture. Credit two hours.

10. *Methods in Agricultural Education.*

The nature and scope of agricultural education, the relation of agriculture to the sciences and the course of study in the common schools, methods of teaching, pre-

paration of homemade apparatus, conducting home and school gardens, poultry clubs, work, home projects among school children, good roads, farm literature, and community buildings. Credit two hours.

11. *Teachers' Course in Agriculture.*

This course is designed to give to students, who have already had ample training, the technique of instruction in agriculture. It will deal with the psychological principles involved and with the best methods of teaching agriculture in rural communities.

GEOGRAPHY

12. *Geology.*

The work of this course deals principally with Dynamical Geology. Geological Formations and Historical Geology. Such phases of the work as geological work of winds, weathering, river action, work of underground water, glaciers lakes, oceans, volcanoes, work of organisms, movements of the earth's crust, the rock forming minerals, composition and minute structure of rocks and the different historical eras are discussed throughout the course. Instruction is given by lectures, text, laboratory, and field excursions. Two hours credit.

13. *Teachers' Course in Geography.*

This course includes the study of the following topics in relation to geographical instruction: Nature and scope of geography, geographical controls; geographical responses, phases of geological study; the relation of geography to the sciences; the relation of geography to other studies of the school curriculum; geography in life; the teachers' preparation; better methods in geography teaching; lesson plans for the different grades; collecting, classifying and mounting specimens; the use of bulletins, pictures, maps, models, etc., in teaching geography. Two hours credit.

ART

1. *Still Life Drawing.*

Freehand drawing from still life studies. Training in the construction of form, and proportion, with due respect given to value of light and shade. Credit two hours.

2. This course is a continuation of 1. In this course a foundation is made for courses in painting. Credit two hours.

3. *Still Life Painting.*

All studies are made from nature. The first studies are made in simple masses of color from vases, fruit, and flowers. In this course the study of drapery reflected lights are taken up. Credit two hours.

4. This is a continuation of 3, and prepares the student for the study of landscapes. Credit two hours.

5. *Landscape Sketching.*

Sketches from nature are made in the open with pencil, crayon, and charcoal. Credit two hours.

6. *Landscape Painting.*

Sketches are made from nature with water color and oils. Special attention being given to aerial perspective and atmospherical color effects. Credit two hours.

7. *Figure Drawing.*

Drawing from full length figure with pencil and charcoal facility in construction, attention to correct proportion and values. Credit two hours.

8. *Figure Painting.*

Painting the figure in water colors and oils. Study in nature is studied closely. Credit two hours.

9. *Theory and Practice of Teaching Art.*

A study of the theory and practice of teaching art from the standpoint of general education and the needs of the child in his school development through all the grades of the elementary school. The subjects taken up are: the purpose of teaching art; the art language; landscape study, Theory of color stencils, Art courses for the kindergarten; the grades and the High School, etc. Two hours credit.

10. *The History of Painting.*

This course takes up the history and development of painting to the end of the Renaissance. Credit two hours.

11. *History of Painting.*

Continuation of 10. This course begins with the Renaissance and extends to the present time. Credit two hours.

12. *The History of Sculpture.*

History of Sculpture from the ancient times to the present times. Credit two hours.

13. *The History of Sculpture.*

History of modern sculpture. Credit two hours.

14. *Home Decoration.*

In this course esthetic principles are applied to home decoration. Special consideration is given to wall, floors, windows, and furniture. Credit two hours.

15. *Home Decoration.*

History styles adapted to modern use. Furniture suitable to different types of houses. Credit two hours.

16. *Teachers Course.*

This will deal with the psychology of drawing and with the best methods of teaching public school art.

BIOLOGICAL SCIENCES

BOTANY

1. *Botany.*

A study of the forms and parts of plants, and the typical ways that plants perform their function and conform to their environment. Two hours credit.

2. *Botany.*

This course is a continuation of 1. An introduction study of plant tissues with especial reference to their development and functions, plant products, their origin and physiological and biological significance. Two hours credit.

3. *Plant Physiology.*

The physiological activities of plants, intake and outgo of material and energy, photosynthesis, digestion, translocation, storage, etc. Two hours credit.

4. *Plant Anatomy.*

A study of plant tissue with special reference to their development and functions, plant products, their origin and physiological and biological significance, histological technique, laboratory work, recitations and lectures. Two hours credit.

5. *Systematic Botany.*

Field trips once a week, classification of flowering plants, with field study of local flora, and the preparation of an herbarium. Two hours credit.

ZOOLOGY

1. *Elementary Zoology.*

A study of biological principles as illustrated in the

animal kingdom as a whole. The laboratory work is designed to give training in methods of scientific observations and interpretations. Two hours credit.

2. *Elementary Zoology.*

This course is a continuation of Zoology 1. Attention directed especially to morphology, life history, ecology, and economic relations, laboratory work, recitations and lecture. Two hours credit.

3. *Comparative Anatomy.*

This course deals with the structure and relations of the vertebrates. It consists of lectures, assignment readings, and laboratory study of types. This course is designed for those who intend to teach and those desiring a general cultural course. Two hours credit.

4. *Introductory Entomology.*

A general course in life and behavior of insects and other arthropods; and their relations to plants and other animals. A field, laboratory and lecture course with recitations designed for the general student. Two hours credit.

PHYSIOLOGY

1. *Introductory Physiology.*

A course in Anatomy, Physiology and Hygiene, designed to establish and to equip the teacher for elementary presentation. The purpose of this course is to teach those things that will enable the student to make of his or her body, and also those they minister to, the most efficient mechanism possible. Two hours credit.

2. *Physiology.*

A more advanced study of Anatomy, Physiology and Hygiene. The requirements of a body as to food, exercise, sleep, fresh air, breathing, etc. The physiological requirements of children, where they differ with adults, will be emphasized. Two hours credit.

3. *Teachers' Course in Physiology and Hygiene.*

A course designed to equip the teacher of physiology with the knowledge sufficient to be presented to the student. The course will cover the subject to physiology as presented in courses 1 and 2. Two hours credit.

4. *General Bacteriology.*

This course is required and is necessary for those who specialize in Home Economics and Agriculture and is open

to any student in the college. It is an introductory course consisting of lectures and laboratory work, in which the student becomes acquainted with culture methods, staining values and other fundamentals of bacteriology. Two hours credit.

5. *Teachers' Course.*

This course is designed to fit those who are majoring in the Biological Sciences for the work of presenting the subject adequately in the public schools. The psychology underlying the study of Biology, the relationship of Biology to Education, and the best methods of presenting general science courses in the public schools will be presented.

CHEMISTRY

1. *General Chemistry.*

This course consists of a study of the most important elements, their history, occurrence, common method of preparation, properties and practical uses of many of the commonly used acids, bases and salts. The course also covers the theory of inorganic chemistry. Two hours credit.

2. *General Chemistry.*

This course is a continuation of course 1. The seven groups of metals are studied together with a brief study of organic compounds. Two hours credit.

3. *Inorganic Chemistry.*

This course is built upon a course in general chemistry, and consists of lectures and recitations on the more difficult principles involved in general chemistry, including such subjects as the gas laws, periodic system, principles of solution, etc. The application of chemistry to the needs of man. Two hours credit.

4. *Inorganic Chemistry.*

This course is built upon a course in general chemistry, and consists of lectures and recitations on the more difficult principles involved in general chemistry, including such subjects as the gas laws, periodic system, principles of solutions, etc. The application of chemistry to the needs of man. Two hours credit.

5. *Qualitative Analysis.*

This course consists of a study of the common metals, their characteristics, properties and special tests. This is fol-

lowed by the determination of "unknown" of the seven groups of metals. Lectures and laboratory work. Prerequisite courses 1 and 2. Two hours credit.

6. *Qualitative Analysis.*

This course consists of a study of the common metals, their characteristics, a continuation of course 4 and consists of a study of acids, their properties and special tests, followed by the "Unknown." Students get practical work in making solutions for the laboratory. Two hours credit.

7. *Elementary Organic and Sanitary Chemistry.*

This is a very practical course on the chemistry of sanitation and is designed for students preparing for home economics. Prerequisite Chemistry 1 and 2. Two hours credit.

8. *Quantitative Analysis.*

This is principally a laboratory course, including both gravimetric and volumetric analysis, supplemented by lectures and recitations. Prerequisite Chemistry 2, 4, and 5. Two, three or five hours credit.

9. *Chemistry of Food Products.*

This course is intended for students of domestic science and those interested in the food supply. It consists of a study of the source, composition and use of foods. Attention is given to the world's supply of foods and its manufacture and preparation for market. Prerequisite Chemistry 1 and 2. Two hours credit.

10. *Food Analysis.*

This course is designed for students specializing in domestic science, the analysis of foods and the chemistry of baking, etc., is taken up and studied. Lectures, recitations, and laboratory. Two hours credit.

11. *Oil Analysis.*

This course consists of the examination of petroleum and their products, lubricating oils, asphalts, and road materials. Prerequisites 8. Two hours credit.

12. *Sanitary Water Analysis.*

This course is a laboratory course in mineral sanitary analysis of water. Lectures and assigned readings on the inter relation of results and upon the methods used. Prerequisite 8. Two hours credit.

13. *Elementary Organic Chemistry.*

This course covers briefly the aliphatic and aromatic series with a discussion of the more important derivatives and also show their relationship and applications. Prere-

14. *Elementary Organic Chemistry.*

This course is a continuation of 13. Two hours credit.

15. *Teachers' Course in the Physical Sciences.*

A consideration of the psychological aspects of the physical Sciences, together with an attempt to develop the principles of the technique of teaching physical sciences in the high school. Two hours credit.

EDUCATION

1. *Psychology.*

An explanation and description of mental phenomena. This course should concern itself with the facts of attention, nervous and motor activities, and the cognitive processes. Two hours credit.

2. *Psychology.*

This course is a continuation of course 1. It is concerned especially with the instinct and affective and volitional activities, especial reference is given to psychology as applied to teaching. Two hours credit.

3. *Psychology.*

An advanced course in the psychology of learning. Two hours credit.

4. *Psychology.*

Adolescent group life, including the physical and mental changes of group organizations, play, crime, health, leadership, and reactional activities. Two hours credit.

5. *Psychology.*

The psychology of Child Study. A study of the development of the child mind. History, sources, aims, and methods of child study; the problems of infancy; physical and mental growth; motor development; plays and games; linguistic development; personality, and stages of growth. Two hours credit.

6. *Psychology.*

The psychology of exceptional children; the backward child, varieties and grades of mental deficiency; the feeble-minded; Children of unusual mental ability; Tests for mental deficiency. Two hours credit.

7. *Education.*

The principles of teaching. The purpose of this course is to teach the things which are most necessary for the beginning teacher to know. It deals with the problems of organizing and controlling the school, with especial emphasis on the problem of maintaining the right sort of discipline. Two hours credit.

8. *Education.*

The principles of teaching. In this course the study of systematic lesson-planning is taken up. The problems of maintaining interest, motivating the work, etc., is presented. Two hours credit.

9. *Education.*

A history of education in the United States dealing with the growth and development of the public elementary schools, the growth of the high schools, the beginning, growth, and functions, of the normal schools, and the development of the American colleges and state universities. Present tendencies in American Education are especially emphasized. Two hours credit.

10. *Education.*

Educational tests and measurements. A consideration of the best attempts that have been made to secure adequate instruments for measuring the work and efficiency of public schools. Two hours credit.

11. *Education.*

Directed observation and practice teaching in the elementary school. This is a continuation of the foregoing. Five hours of teaching required for graduation. Two hours credit.

12. *Education.*

Directed observation and practice teaching in the elementary school. This is a continuation of the foregoing. Two hours credit.

13. *Education.*

Psychology and pedagogy of the elementary subjects. Two hours credit.

14. *Education.*

Rural School Problems. A course for those who intend to teach in rural schools. Two hours credit.

15. *Education.*

Mental Tests and Measurements. A study of the various attempts to measure native intelligence as given in the various revisions of the Binet Scale, the Point Scale, the army Intelligence tests, and the Thorndike Columbia Entrance tests, etc. Two hours credit.

16. *Education.*

History of European Education. A rapid survey of the Educational system of the Greeks and Romans, followed by a survey of the education in the middle ages. This survey is to be followed by an intensive study of the reforms of the great educators Rousseau, Froebel, Herbert, and Pestalozzi, and a thorough study of the development of Education in Western Europe.

17. *Education.*

The Psychology and pedagogy of the high school subjects. Some such consideration as is contained in Judd's "Psychology of the High School Subjects" and Parker's "Methods of Teaching in the High School." Two hours credit.

18. *Education.*

Educational Administration and Supervision. Two hours credit.

19. *Education.*

The philosophy of Education. Two hours credit.

20. *Education.*

Directed observation and Practice Teaching in the high school. Two hours credit.

21. *Education.*

Directed Observation and Practice teaching in the high school. This is a continuation of the foregoing, five hours of practice teaching are to be required. Two hours credit.

22. *Education.*

Current problems in Education. This course could be adapted to fit the needs of a particular class. In a general way it should attempt to study the educational magazines, the publications of the Federal Bureau of Education, and the publications of the research societies in education from the basis of this course. Two hours credit.

23. *Education.*

Rural Sociology. A study of the problems confronting

rural communities with an effort to discover the principles which underlie rural progress. A study of the rural school as an instrumentality for the promotion of rural well-being. Two hours credit.

24. *Education.*

Educational Sociology. A study of the relationship of education and the various educational institutions to the larger society of which all these institutions are a part. Two hours credit.

25. *Education.*

Vocational Guidance. A course dealing with the adjustment of education to the individual differences of the pupils, with an effort to understand the current transformation of educational practice. Two hours credit.

26. *Education.*

An introduction to the principles of philosophy, supplementing the courses in philosophy of education and history of education as well as furnishing a basis for later, more advanced philosophical study. Two hours credit.

27. *Education.*

County and rural school administration and supervision. An effort to determine the relative merits of the various type of school organization in rural communities, a study of rural surveys, system of supervision, certification of teachers, etc. Two hours credit.

28. *Education, Primary Methods.*

This is a course for primary teachers. It deals with the psychology of primary reading, and seeks to give guidance in the best methods of teaching reading to the beginners. It also seeks to give guidance in elementary methods of teaching language. Two hours credit.

29. *Education, Primary Methods.*

A course in elementary numbers. The psychology and pedagogy of numbers is developed and an effort made to acquaint the student with aids and devices for teaching the number work of the first three grades of the elementary school. Two hours credit.

30. *Education, Primary Methods.*

A course in nature study, home geography, and health instruction for those who are preparing to teach in the first three grades of the elementary schools. This course seeks

to give the student assistance in teaching home geography as a basis for more systematic training later; it strives to help in the instruction concerning the plant and animal life surrounding the home life of the child, and the relation of that life to the child; it seeks to give lessons in cleanliness, health, and sanitation, thus laying the basis for those habits which are essential to good health. Two ours credit.

ENGLISH

1. *Fundamentals of Literature.*

It is the aim of this course to acquaint college students with the wealth of pleasurable and worth-while things found in the field of English literature. The study is approached through the examination of various literary types such as the epic, the lyric, the drama, the essay, the romance, etc. (This course is required of all college students). Two hours credit.

2. *English Literature.*

This course embraces extensive readings in English Literature from Anglo-Saxon days to the time of Wordsworth. Essays and special reports are required. Verse is emphasized. Two hours credit.

3. *English Literature.*

This course is a continuation of English 2. It embraces readings in English literature from the time of Wordsworth to the present day. Prose is emphasized. Two hours credit.

4. *Advanced English Grammar.*

This course is a practical course in technical grammar designed for students of college ranking. Special attention is given to the periodic reports published by the National Educational Association. Two hours credit.

5. *Advanced English Composition.*

This unit of work is a continuation of English 4. Exposition and argumentation are carefully considered. Most of the theme subjects are selected from topics of the day. Two hours credit. (Required).

6. *Advanced English Composition.*

This course comprises a detailed study of narration and description with abundant practice in theme writing. Students are met at regular intervals for personal conference. Two hours credit. (Required)

7. *Story Telling and Mythology.*

This course is intended primarily for students who expect to teach in the grades. Stories of various types are studied and their merits weighed, and there is much practice in story-telling. Two hours credit.

8. *Literary Criticism.*

This course involves a discussion of the main principles of literary criticism and the study of a few specimens of literature. The course is recommended to all prospective high school teachers. Two hours credit.

9. *The Short Story.*

This course embraces the history of the short-story; a study of the various types of the short-story; a study of the mechanics of the short-story; and practice in short-story writing. Two hours credit.

10. *Public Speaking.*

This course the student is taught to think on his feet; exercise in the effective organization of material are stressed; the psychological principles governing public speaking are given attention; and model speeches are analyzed. Two hours credit.

11. *Argumentation and Debating.*

Practical problems involved in argumentation and debating receive attention in this course and an intensive study of some debatable questions of the day is made. Students who take part in the inter-collegiate debates are expected to enroll in this course. Two hours credit.

12. *Shakespeare.*

In this course, an intensive study is made of six of Shakespeare's plays and some attention is given to the technique of the drama. Two hours credit.

13. *Shakespeare.*

This course is a continuation of 12. Six of Shakespeare's plays are studied intensively and his non-dramatic contributions are considered. Two hours credit.

14. *The Modern Drama.*

This course involves a brief review of the history of the drama and the reading of a number of recent plays. Two hours credit.

15. *The English Romantic Poets.*

The English Romantic Movement is traced in this

course and some of the longer works of Byron, Shelley, Keats and Wordsworth are studied. Two hours credit.

16. *Victorian Poetry.*

In this course the chief emphasis is placed upon the works of Tennyson and Browning. Two hours credit.

17. *The Recent Novel.*

This course comprises the reading and analysis of six typical novels of recent years. Special attention is given to the social and educational problems set forth by the authors. Two hours credit.

18. *Poetics.*

This course endeavors to enhance the general poetic appreciation of the student and to familiarize him with the mechanics of English verse. Original contributions in verse are encouraged. Two hours credit.

19. *Anglo-Saxon.*

It is the aim of this course to set forth the basic principles of Anglo-Saxon language. Old English selections are read. Two hours credit.

20. *Middle English.*

This unit of work is a continuation of 20. The changes in the English Language caused by the Norman Conquest are studied and the poetry of Chaucer and his contemporaries receive attention. Two hours credit.

21. *The Essay.*

The purpose of this course is to acquaint the student with the formal and the familiar essay of England and America. Emphasis is placed upon recent contributions. Two hours credit.

22. *American Poetry.*

This course in American poetry consists of a careful critical study of the chief American poets. Two hours credit.

23. *The Teaching of English in the Elementary Grades.*

The object of this course in professional English is to present the aims and methods of teaching the various phases of the subject. Two hours credit.

24. *The Teaching of English in the High School.*

A careful analysis is made of the English problems that arise in the Junior and Senior High Schools and solutions to the problems are developed.

25. *Contemporary Literature.*

This course is designed for College seniors and it deals with the late movements in the literary works.

LATIN

1. *Latin.*

A study of the forms and common construction of the language, with English and Latin exercises. Special attention is given to Latin words that have English derivatives. Two hours credit.

2. *Latin.*

This course is a continuation of 1. The two courses are equivalent to the work usually covered in the first year of Latin study in the high school. Four Hours credit.

3. *Caesar.*

Special attention is given in the study of Caesar to the verb forms and grammatical construction. One day each week is devoted to Latin composition. Two hours credit.

4. *Caesar.*

This course is a continuation of 3. Four hours credit.

5. *Cicero.*

This course in Cicero an appreciation of the fine qualities of Latin oratorical and argumentative literature is sought. There is a weekly drill in composition and advanced grammar. Four hours credit.

6. *Cicero.*

This course is a continuation of course 5. Four hours credit.

7. *Vergil.*

A careful translation of the Aeneid and practice in scansion is taught in Vergil. A study is made of the figures of speech. Syntax, and mythology. Two hours credit.

8. *Vergil.*

This course is a continuation of Latin 7. Four hours credit.

9. *Ovid.*

Several hundred verses of the metamorphoses will be read in this course, also a close study of scansion and mythology. Two hours credit.

10. *Liby.*

This course will include selections from the history of Rome. Two hours credit.

11. *Cicero's Philosophy.*

This course will include a study of De Amicita and De Senecutte together with a study of Cicero, the philosopher, and Roman life. Two hours credit.

12. *Horace.*

This course consists of a study of selected odes and epiodes. Two hours credit.

13. *Private Life of the Romans.*

This course is a study of the private life of the Romans. Two hours credit.

HISTORY, GOVERNMENT, AND SOCIOLOGY

1. *European History.*

From 395 A. D. through the Crusades, The disintegration of the Roman Empire, the development of European nations, the power of the Roman Church, monasticism and feudalism will be closely studied. Two hours credit.

2. *European History.*

A continuation of course 1 through the Reformation. The Renaissance, the discoveries, and the Reformation will receive emphasis. Two hours credit.

3. *European History.*

A continuation of general European history, to the beginning of the French Revolution. The decline of the Papacy, development of the power of divine right Kings, colonial empires and the rivalry of nations, will be stressed. Two hours.

4. *France Since 1789.*

The French Revolution will be the chief subject of this course, but, her eventual establishment of democracy and after history will be briefly considered. Two hours credit.

5. *History of England.*

From the beginning, to the end of the Tudors, Medieval life, and institutions, the development of parliament, political and religious independence, will be emphasized. Only one hour credit to those offering English History for entrance. Two hours credit.

6. *History of England.*

From 1603 to the present time. Commercial, industrial, literary and democratic development and power. Much supplementary reading and note book work will be done. One credit to those offering English History for entrance. Two hours credit.

7. *American History.*

From the discovery to 1750. Much of this course must be studied from the European view-point. Life in the colonies, political problems, struggles with various enemies, and the growth of the colonies. Only one credit to those offering American History for entrance. Two hours credit.

8. *American History.*

From Jackson's administration to the present. The question of slavery, state rights, the Civil War period, expansion, industrial progress, recent events, will be leading features. Much supplementary reading and note book work will be done. Only one hour credit to those offering American History for entrance. Two hours credit.

9. *Oklahoma History.*

Explorations, settlement of the Indians, openings to white settlers, territorial governments, statehood, educational and industrial development. Two hours credit.

10. *Teachers' Course in History.*

Principles and methods of teaching history efficiently. Prerequisites: History 1 to 6. Two hours credit.

11. *History of Ancient Greece.*

A more advanced and thorough study of the political, social and intellectual life of the Greeks. Two hours credit.

12. *History of Rome.*

A more advanced and thorough study of the Roman Republic and Empire up to the final division, 395 A. D. Roman Law, spread of civilization, military system, and the causes of her disintegration. Of special value to Latin and law students. Two hours credit.

13. *Modern Political Problems.*

A course to give a general understanding of the important governmental problems among the different people of the world. Not open to Freshmen or Sophomores or those without credit in History 12. Two hours credit.

14. *Elementary Political Economy.*

Explains the meaning of wealth, capital, labor, money, etc. Not open to those who have entrance credit for Economics. Two hours credit.

15. *General Economics.*

One of these courses in a more advanced study and more extensive consideration of principles and problems in the economic sphere. Production, labor unions, wages, division, distribution, big business, etc. Prerequisites: Economics 1 and American History. Two hours credit.

16. *Continuation of 15.*

Two hours credit.

17. *Completion of 15 and 16.*

Two hours credit.

18. *Economics, Labor Problems.*

An intensive and advanced course on labor questions, organizations, arbitrations, etc. Prerequisites: Economics 2, 3 and 4.

19. *Transportation.*

An advanced course in land and water transportation. Special attention will be given to railroads. Prerequisites Economics 15, 16 and 17. Two hours credit.

20. *Public Finance.*

Questions of taxation, government and indebtedness, expenditure, budget, etc. Prerequisites: Economics 15, 16, and 17. Two hours credit.

21. *Business Law.* (Same as Government 40.)

Two hours credit.

22. *Rural Economics.*

A study of efficient management in agriculture, tenancy, insurance, co-operative buying and selling. Prerequisites: Agriculture and Economics 1. Two hours.

23. *Economic Results of the War.*

The important general results of the recent war. Prerequisite Economics 1. Two hours credit.

24. *Sociology, Introduction To.*

A course in the elementary principles of sociology. Environment and inherited characteristics as affecting the social life. Two hours credit.

25. *Rural Sociology.*

The family, church, school and other influences and

problems connected with rural life. Two hours credit.

26. *Modern Social Problems.*

The problems in our social life today, and the application of the principles of sociology to them. Prerequisites, Sociology 1. Two hours credit.

27. *Criminology.*

Causes and prevention of crime, reformation, etc. Prerequisite, Sociology 1. Two hours credit.

28. *Race Problems.*

Characteristics and hostilities of the different races, causes and solutions of problems, with special attention to races. Two hours credit.

29. *History of the British Empire.*

England's acquisition of colonies, her methods of governing them, commercial interests, England as a world power. Prerequisite: Courses covering English History. Two hours credit.

30. *History of Latin America.*

Beginnings, growth, and present conditions of the Central and South American Nations, of interest to Spanish and commercial students. Two hours credit.

31. *The World War.*

Causes and results of the recent struggle against the Central Powers. Large amount of reading of periodical literature. Two hours credit.

32. *Industrial History of the United States.*

Open to those who have credit in Economics 1 and American History. Two hours credit.

33. *Industrial History of England.*

This course, as 32 is of special interest to those majoring in Economics or Sociology. Prerequisites: Economics 1 and American History. Two hours credit.

34. *Government—Elementary Civics.*

Not open to those who offer Civics as an entrance credit. Two hours credit.

35. *American Government and Politics.*

Local, state and federal governments, party machinery, etc. Experimental organizations and discussions in class. Two or three hours.

36. *American Government and Politics.*

Continuation of 35. Two hours credit.

37. *Government of Oklahoma.*

The state constitution, city and county government. Prerequisites: American and Oklahoma History. Two hours credit.

38. *Federal Constitution.*

History and interpretation of its principles of the Federal constitution. Political literature and some court cases will be used. Not open to Freshmen. Prerequisites: Civics and American History. Two hours credit.

39. *Municipal Government.*

A specific study of the different forms of City government. Open to those who have credits in Civics and American History. Two hours.

40. *Business Law.*

Contracts, negotiable instruments, sales and other legal features of business and trade. Same as Economics 23.

41. *Comparative Government.*

A comparative study of the national, state and city governments of the important nations. Not open to Freshmen. Prerequisites: European, English and American History. Two hours credit.

42. *American Diplomacy.*

Our foreign policy, treaties, arbitrations, etc. Open to those who have credits in European, English and American History, and Civics. Two hours credit.

43. *International Law.*

Principles governing relations between nations, treaties, Hague conventions, etc. Prerequisites same as for Government 42. Two hours.

44. *A Teachers' Course in History and Government.*

An effort to develop the psychological principles underlying the teaching of History and Civics; a consideration of recent tendencies in teaching these subjects. Supervised study as applied to history. Two hours credit.

HOME ECONOMICS

PURPOSE .

This course is arranged here to meet the needs of two classes of students; those pursuing the standard Normal School curriculum, who need general instruction and second, those desiring to teach Home Economics and need specialized

instruction. The intention of the course is to prepare a student to teach both Domestic Science and Domestic Art.

FOODS AND COOKERY

1. *Food and Cooking.*

A general survey of foodstuffs and cookery of foods. This course is designed for students pursuing the standard normal school curriculum, or those doing certificate work. This course is also required to those specializing in Home Economics who have no high school training. Two hours credit.

2. *Food Preparation.*

Composition, cost and preservation of foods. Cookery of representative foods. Inorganic Chemistry a parallel.

3. *Food Preparation.*

Two hours credit.

This course is a continuation of course 2. Two hours credit.

4. *Cookery and Table Service.*

This course is work with foods on the basis of meal preparation, planning and serving of informal meals. Prerequisite 2 and 3. Two hours credit.

5. *Cookery and Table Service.*

This is a continuation of 4. Formal meals, teas, receptions, etc., included. Two hours credit.

6. *Home Economics for Rural Schools.*

This course is intended for students who expect to teach in rural schools. Special study of the school lunch. Open to all students. Two hours credit.

7. *Dietetics.*

Chemistry and physiology of digestion and metabolism and nutritive requirements of individuals. Prerequisite course 3 and 4. Two hours credit.

8. *Dietetics.*

This course is a continuation of 7. Deficiency diseases and principles of nutrition. Two Hours Credit.

9. *Infant Feeding and Invalid Cookery.*

Energy requirements of infants and growing children, malnutrition, preparation and service of foods for the sick room. Prerequisite courses 3 and 4. Two Hours Credit.

10. *Housewifery and Sanitation.*

Study of the household appliances; household care, cleaning and sanitation. A lecture course. Two Hours Credit.

11. *Home Nursing.*

Principles governing attending a patient and caring for a sick room, first aids, methods of fumigation, etc. Two Hours Credit.

12. *Industrial Cookery.*

Study of institutional management and laboratory work in connection with cafeteria. Prerequisites 3, 4, 7 and 50. Two Hours Credit.

TEXTILES AND CLOTHING.

13. *Sewing and Textiles.*

Fundamentals of plain hand and machine sewing and elementary study of textiles. The course is designed for regular normal students and those doing certificate work. It is required of those specializing in Home Economics who have had no high school training in the subjects. Two Hours Credit.

14. *Sewing.*

Plain machine sewing, use and alteration of commercial patterns, care of machines. Two Hours Credit.

15. *Sewing.*

Drafting of patterns to suit individuals with the measuring and making of garments therefrom. Prerequisite 14. Two Hours Credit.

16. *Textiles.*

Textile industry, identification of fibers, clothing budgets, hygiene of clothing. Two Hours Credit.

17. *Costume Design.*

Good taste in dress effect of lines and color on individual types of figures. Prerequisite. Two Hours Credit.

18. *Dressmaking.*

, Designing, drafting, patterns for and the making of afternoon dress, problems in tailoring. Prerequisite 15 and 16. Two Hours Credit.

19. *House Decoration.*

Study of exterior of homes from artistic standpoint. Development of good taste and individuality in the furnishing of a home. Two hours credit.

20. *Applied Household Art Design.*

Artistic selection of designs for various articles in the house as curtains, vases, runners, etc. Two Hours Credit.

21. *Home Economics Survey.*

History and development of Home Economics movement, present status and importance, new duties and responsibilities of women. Lecture course. Two hours credit.

22. *Methods in Home Economics.* ('Teachers' Course)

Methods of presenting Home Economics in the schools. Planning courses. Two Hours Credit.

INDUSTRIAL ARTS.

1. *Organization and Administration of Industrial Arts.*

This course is planned to cover problems in the organization and teaching of the industrial arts. It covers: the theory of education and its application to the industrial arts, the qualifications and opportunities of special teachers, methods of teaching industrial arts. The work is carried on by means of lectures, discussions, assigned readings and reports. Two Hours Credit.

2. *Theory and Practice of Handwork for the Primary Grades.*

This course is a special interest to supervisors and teachers of the lower grades. It deals with the problems of the first three grades from the standpoint of the supervisor and the regular grade teacher and shows the work is suitable for the purpose of the various grades and how the work can best be handled. The work is carried on by means of lectures, assigned readings; reports and practical exercises. Two Hours Credit.

3. *Theory and Practice of Handwork for the Intermediate Grades.*

This course deals with the problems of the fourth, fifth and sixth grades in the same way that course 2 takes up the work for the primary grades, particular emphasis being given to such forms of work as may be used successfully in the regular classroom by the regular teacher. Two Hours Credit.

4. *Industrial Work for Rural School.*

This course takes up problems of interest to the rural school and farm life, and shows how to organize the work that it may serve the communities need. Inexpensive materials, such as rope and wood, which are easily obtained

in rural communities are used in the construction work.
Two hours credit.

5. *Farm Mechanics.*

This course includes work in wood, cement and metal. It is of especial interest to those who are inclined towards the farm. The practical work includes the making of concrete forms and projects in plain and reinforced concrete. In metal work a series of problems adapted to farm use and embodying the simple principles of forging, pipe-fitting and soldering are taken up and worked out. Two hours credit.

6. *Farm Machinery.*

This course involves a study of the common farm machines in assembling, disassembling, tracing lines of power through machine, learning principles of operation, locating troubles, and repairing broken and worn parts. Two hours credit.

7. *Carpentry.*

The aim of this course is to teach the fundamental tool processes of carpentry and the elements of frame building construction. The work done is of decidedly practical character, being on actual cottage and house construction, the theoretical work covers the use of the carpenter's steel square to solve geometric problems, to lay out members of construction such as braces and rafters, laying out work from plane, figuring quantities of materials and costs. Two hours credit.

8. *Elementary Wood Work.*

This is a beginners course, arranged to give the student sufficient experience in the use and care of the principle bench tools to enable him to use them with some degree of freedom and confidence. Enough drawing is given to familiarize the student with the underlying principles of working and enable him to read blue prints and other drawings. Some study is made of the common kinds of wood and the methods of finishing them. Two hours credit.

9. *Bench Wood Work.*

This course includes such work as is usually given in the eighth grade and first year high school, and presupposes that the student has had, at least an elementary course in woodworking. Development of skill in handling tools and

materials, combined with a thorough study of the related teaching problems constitute the general aim of the course. Most of the work is done by hand but the machines may be used when a large number of joints or pieces are duplicate. Two hours credit.

10. *Furniture and Cabinet Making.*

This course is designed to give practice in cabinet construction suitable for advanced students in woodworking machinery; to afford an opportunity to study methods used in presenting the subject to high school classes, and to give students an opportunity to prepare lesson plans and give demonstrations to tool processes. Two hours credit.

11. *Wood Finishing and Upholstery.*

This course includes instruction in the mechanical preparation of wood before staining, the preparation, use and application of stains, fillers, and finishing coats such as wax, oil, shellac and varnish, including French polishing and rubbed varnishes, a series of small panels of different kinds of wood are finished and the knowledge gained in this work applied in the finishing of a few small projects. The making of plain and spring seats will be taught in upholstering, including a study of webbing, springs, stuffing and covers. The use of reed in caning will be considered. Two hours credit.

12. *Wood Turning.*

This course includes a study of the historical development of the lathe, the use and care of the lathe and tools, the cutting action of turning tools and the method of holding them, the making of a series of models which involve spindle, faceplate, chuck and mandrel turnings, and finishing and polishing. Two hours credit.

13. *Elementary Forging.*

This course includes a study of the construction of different kinds of forges, selection of coal, building and care of fire, proper position at forge and anvil, proper use of different tools, correct heat for working and welding iron. The practical work includes drawing out, upsetting, scarfing and welding, bending, forming, twisting, swaging, punching, riveting and die work. Two hours credit.

14. *Tool Smithing.*

This course aims to acquaint the student with the processes involved in the making of tools for the various shops. The reason for various processes, the choice of material, carbon content of various steels, and various heat treatments in connection with forging, hardening and tempering are studied in detail. The practical work involves the making of such tools as: cold chisel, center punch, screw driver, countersink bit. Two hours credit.

15. *Automobile Mechanics.*

It is the aim of this course to teach the students to be able to locate and repair chassis, engine and ignition troubles. A study is made of different motors as to design, material and construction; of the storage, transmission, clutch, brakes, etc. Two hours credit.

16. *Pattern Making.*

This includes a study of the relationship between the pattern shop, foundry and machine shop; materials for patterns, selection of stock, draft, finish shrinkage; selection and use of glue; and the making of simple patterns such as shaper parallel, bench rammer, dovetail slide for lathe rest, and pipe fittings. Particular attention is given to proper procedure and accuracy of work.

17. *Foundry Practice.*

The aim of this course is to give the student as much practical work as possible in molding and managing the cupola and brass furnace. Talks and demonstrations are given during the course on foundry terms, names and uses of foundry tools, selection and preparation of moulding and core sand the making of green sand moulds, core making and the use of core furnace, brass furnaces and cupolas, and the selection of foundry equipment. The practical work includes cutting and tempering sand, two and three part flask work, mixing core sand, making and baking cores, setting different kinds of cores, firing, melting, mixing and pouring iron, and shaking and cleaning castings.

18. *Elementary Machine Shop Practice.*

This course is divided into two parts, bench work and machine work. In the bench work special emphasis is placed on laying out work, chipping, filling and fitting. In machine work drilling holes to accurate layout, drilling by

jigs, turning between centers, screw cutting, chuck and face plate work, planing flat surfaces, chambers and bevels. Two hours credit.

19. *General Machine Shop Practice.*

This is a continuation of course 18 in which the student takes up work in gear cutting, fluting taps and reamers, cutting spirals, cylindrical and taper grinding, and the making of repairs and adjustments to the shop equipment. Two hours credit.

20. *Advance Machine Shop Practice.*

In this course tool making is taken up and particular attention is given to the making, annealing, hardening and tempering of various hand and machine tools such as drills, reamers, taps and dies, milling machines, cutters, etc.

DRAWING AND DESIGN.

21. *Mechanical Drawing.*

On this course instruction is given to enable the student to acquire proficiency in free hand lettering and the use of instruments; knowledge of the conventions and methods of drafting room practice; acquaintance with elementary geometric construction, orthographic projection and development; and the ability to make and read working drawings. Two hours credit.

22. *Projection Drawing.*

This course deals with the fundamentals of projection in problems which involve revolutions, sections, intersections and developments, isometric projection, and the development and application of various curves. Two hours credit.

23. *Furniture Design.*

This course deals with the designs of different periods of furniture as to beauty and serviceability. A series of exercises are taken up and designs are worked out for pieces of furniture ranging from the simple designs of chairs and tables to the more complex types, which are to be constructed in the cabinet making courses. Two hours credit.

24. *Architectural Drawing.*

In this course instruction is given to enable the student to become acquainted with architectural conveniences and lettering; sketching of simple house plans and a study of

arrangement of rooms, openings and conveniences; and elevation of the house with a study of the proportions adaptable to the plan. Two hours credit.

25. *Machine Drafting.*

In this course instruction is given to familiarize the student with conventions used in machine drawing, the making of free-hand sketches from castings and machine parts, the making of detailed drawings and assembled drawings, the technique of tracing and blue printing.

26. *Machine Drawing.*

In this course is taken up a study of the theory applied in practical work in the transmission of power by means of belts, cams and gears; and the making of detailed and assembled drawings of intricate pieces of machinery, the selection of views, use of sections, arrangements of dimensions, etc. Two hours credit.

MATHEMATICS.

1. *Solid Geometry.*

Elements of solid geometry, properties and measurements of surfaces and solids. Open to all students not offering it for high school entrance credits. Two hours credit.

2. *College Algebra.*

This course consists of a rapid review of elementary algebra, graphic representation, logarithms, determinants, theory of equations, Horner's methods of approximation. Two hours credit.

3. *College Algebra.*

This course is a continuation of course 2. Two hours credit.

4. *College Algebra.*

This course is intended for students who have entered with only one year of high school algebra. It includes a thorough review of elementary algebra and as many of the subjects of 2 as possible. Two hours credit.

5. *Plane Trigonometry.*

The derivation and use of formulas, solutions and triangles with acute angles, the solution of right triangles by natural functions, logarithms, the solution of different kinds of triangles practical work in the use of the transit. Two hours credit.

6. *Plane Trigonometry.*

This course is a continuation of course 5. Graphic representation of trigonometric functions, the inverse trigonometric functions and trigonometric equations application of the theory of wave motion spherical trigonometry. Two hours credit.

7. *Analytical Geometry.*

The straight line, circle, elements of parabola, ellipse and hyperbola, polar co-ordinates, higher plane curves, elements of solid analytical geometry. Two hours credit.

8. *Analytical Geometry.*

This course is a continuation of analytical geometry 7. Conic section, polar co-ordinates, loci problems, higher plane curves. Two hours credit.

9. *Calculus I.*

Differential calculus, fundamental principles, derivatives, application to geometry and mathematics, maxima and minima, indeterminates. Prerequisite Course 7. Two hours credit.

10. *Calculus II.*

Integral calculus, integration, definite integral applications to length, areas and volumes, prerequisite 16. Two hours credit.

11. *Teaching Elementary Mathematics.*

Essential features of the course in arithmetic and the allied mathematics of the elementary schools. It presupposes a thorough course in psychology and pedagogy. Attention will be paid to method in teaching. Reading from the best authors on the teaching of Mathematics. Two hours credit.

12. *History of Mathematics.*

The growth and development of mathematics from the historical standpoint. The development of the application of mathematics to practical affairs. This course also includes a study of the content of present courses in arithmetics, algebra, geometry and unified mathematics. Applied fourteen hours mathematics. Two hours credit.

13. *Elementary Surveying.*

A brief course in the use of surveyors' instruments laying out walks, drives, ditches and buildings, calculations

of cuts and fills, elements of land surveying. Prerequisite: plane trigonometry. Two hours credit.

14. *Teachers' Course in Arithmetic and Algebra.*

The psychology of number, rectne tendencies in teaching mathematics and problems of supervised study.

MODERN LANGUAGE.

FRENCH.

1. *Elementary French.*

In this course in elementary French emphasis is placed on verbs and pronouns. Daily composition and conversation. Reading easy fairy tales and short stories, about 200 pages. Two hours credit.

2. *Elementary French.*

This course is a continuation of Course 1 and emphasis is placed on conversation and composition. Reading easy prose and French plays. Four hours credit.

3. *French.*

Emphasis is placed on composition in this course with daily class work in conversation. About 200 pages of reading of selected prose and fables. Two hours credit.

4. *French.*

Modern prose and poetry. Reading composition and conversation, especially noting the idioms. Four hours credit.

5. *French.*

The French Novel. An intensive study of Daudet, Dumas and Sand, about 800 pages. Two hours credit.

6. *French.*

The French Drama. A study of Moliere's comedies, Racine and Corneille. Prerequisite: 1 and 4. Four hours credit.

7. *French.*

Short Story. An intensive study of Daudet, Maupassant, Musset Vigny; about 900 pages. Two hours credit.

8. *French.*

Advanced Composition and conversation. This course is open to those who have had French 12, 2, 4, 5 and 6. Intensive work.

SPANISH.

1. *Elementary Spanish.*

This course consists of daily composition and conver-

sation, practice in forms and Syntax. Two hours credit.

2. *Elementary Spanish.*

Idioms and subjunctives are emphasized in this course with easy readings. Continuation of 1. Four hours credit.

3. *Spanish.*

Composition based on Espianosa and Allen. Intensive conversation. Reading easy Spanish plays. Two hours credit.

4. *Spanish.*

Modern novel. This course is an extensive reading of more advanced type, about 700 pages. Four hours credit.

5. *Spanish.*

Commercial Spanish. This course consists of reading correspondence and conversation with rapid dictation. Two hours credit.

6. *Spanish.*

Modern Drama. A rapid reading of Spanish plays with some poetry. Four hours credit.

7. *Spanish.*

Conversation, story telling, rapid sight reading and composition. This course is designed for those who desire a working vocabulary for Spanish. Prerequisite: Spanish 1, 2, 3 and 4. Two hours credit.

MUSIC.

1. *Teacher's Graded Course in Public School Music.*

This course consists of work in rote and written metric and tolan dictation—introducing major scales, chromatic scales, relative minor keys, oral and written. Major treads and their inversion. Two hours credit.

2. *Continuation of Music 1.*

Adding the tonic minors, minor treads and inversions. Prerequisite: Course 1. Two hours credit.

3. *Continuation of Music 2.*

Writing simple melodies, four-part harmony, analysis of song types. Two hours credit.

4. *Elementary Harmony.*

Ear training and singing lessons in class. It includes writing four-part harmony, including use of primary triads and their inversions, dominant seventh chords and inversions. Special emphasis is laid upon our training and the

singing includes correct breathing, the principles of voice placement and enunciation. Two hours credit.

5. *Continuation of Music 4.*

Prerequisite 1, 2, 3 and 4. Two hours credit.

6. *History of Music.*

This is the study of the growth and development of music from the earliest time of which there is any record, down to the present. Illustrations are made by means of piano, voice and talking machine records. The history of early church music, the development of musical forms sacred and secular instruments, are included here. Two hours credit.

7. *Methods, Observation and practice.*

This deals with the pedagogy and psychology of music in the grades. It takes up the methods of presenting the work in the different grades. Observation being made and practiced in the training school.

8. *Chorus.*

Three-quarters required for credit. Required on supervisor's courses. Music 1 and 2 or the equivalent are prerequisites. Two hours credit.

9. *Orchestra.*

Students who play instruments which can be used in orchestra are urged to bring them and join the school orchestra. Three quarters for two hours credit.

10. *Observation and Teaching in the Lower Grades.*

This course deals with the methods of teaching—the fundamental psychological principles of teaching are studied with special emphasis on their application. Prerequisites 1 to 7 with 2 years of chorus.

11. *Observation and Teaching in the Upper Grades.*

This follows 8 and applies to the upper grades.

12. *Observation and Teaching.*

This is teaching of 4 with special practice in directing chorus groups and other special organizations.

13. *Music Appreciation.*

Open to non-music students or those who are not specializing in music. The purpose of the class is to acquaint students with standard vocal and instrumental compositions and enable them to listen with discrimination. Current musical events.

14. *The Technique of the Opera.*

A practical study of the various vocal forms, including chant, anthem, cantata, oratoria and opera. Open to advanced students and qualified underclassmen.

15. *Modern Music and Musicians.*

Dwelling especially on American music and its future.

16. *Elementary'Harmony.*

Four-part writing. Special emphasis is laid upon ear training and key work.

17. *Intermediate Harmony.*

Continuation of 16. Close and dispersed harmony. Preparation for modulation.

18. *Advanced Harmony.*

Continuation of 16 and 17. A thorough study of modulations through the diminished seventh and its various interpretations, using enharmonic changes. Also through the dominant seventh chord.

PHYSICS.

1. *Physics.*

This course is intended for those who have not had physics in high school. It is an elementary course in mechanics, recitations' and laboratory work. Emphasis is placed largely upon familiar mechanics and instruments, such as the steam and gas engines, pumps, meters and simple machines. Two hours credit.

2. *Physics, Electricity, Megnatism and Light.*

This is an elementary course consisting of lectures, recitations and laboratory work in the practical application of electricity, sound and light. The construction and practical use of many electrical machines are closely studied. Four hours credit.

3. *General Physics, Mechanics, Sound and Heat.*

This is an advanced course in physics consisting of lectures, laboratory and recitations. Prerequisites, elementary physics and plane trigonometry. Two hours credit.

4. *General Physics, Light and Electricity.*

This course is a continuation of Course 3. It includes a study in the lecture room and laboratory of dynamos, meters, starting equipment, transformers and other electrical devices. Two hours credit.

5. *The Teaching of Physics.*

Practice and theory. Texts, materials and methods for the basis of study. This course is to prepare teachers for the teaching of physics and general science. Prerequisites: Physics 1 and 2. Two hours credit.

6. *Household Physics.*

A course in physics designed for students in the home economics department. It includes a study of physics as applied to the general household. Two hours credit.

PHYSICAL EDUCATION.

Courses 1 and 2 Are Required of All Freshmen in All Courses for the Life Diploma.

1. *Physical Exercise.*

Development of organic power. Three hours a week. One hour credit.

Men (a)—One hour of outdoor games while weather permits, other indoors.

(b)—Various athletic games, during the seasons, in place of a.

Women —Emphasis is laid upon development of good posture and poise. Outdoor games while weather permits, and indoor games, folk dances and elementary work in aesthetic dancing, calisthenics and apparatus.

2. *Physical Exercise.*

Three hours a week.

Men—Continuation of Course 1.

Women—Continuation of Course 1, advanced work.

3. *Playground.*

Organization and supervision of the playground. Theory of plays and games from the simple to the highly organized; practice in playing and coaching of games, athletics and folk dancing. Organization of tournaments, meets and various competitions. Equipment of playground, including construction of hand-made apparatus. Prerequisites: Course 2, physical and psychology. Two hours credit.

4. *Theory and Dancing.*

Technique of dance. Study of folk and national

dances, selected and arranged to meet the need of the schoolroom and playground. Elementary and advanced work in aesthetic and interpretative dancing. Study of pageantry. Two hours credit.

5. *Theory of Coaching.*

This course is designed for those who wish to coach teams, such as football, basketball, volleyball, track, baseball and tennis. The various sports will be taken up and methods of training teams and formations worked out. Two hours credit.

6. *Hygiene and First Aid.*

Personal, school and social hygiene, study of physical diagnosis and physical examination. Lectures and demonstrations in handling emergencies. Two hours credit.

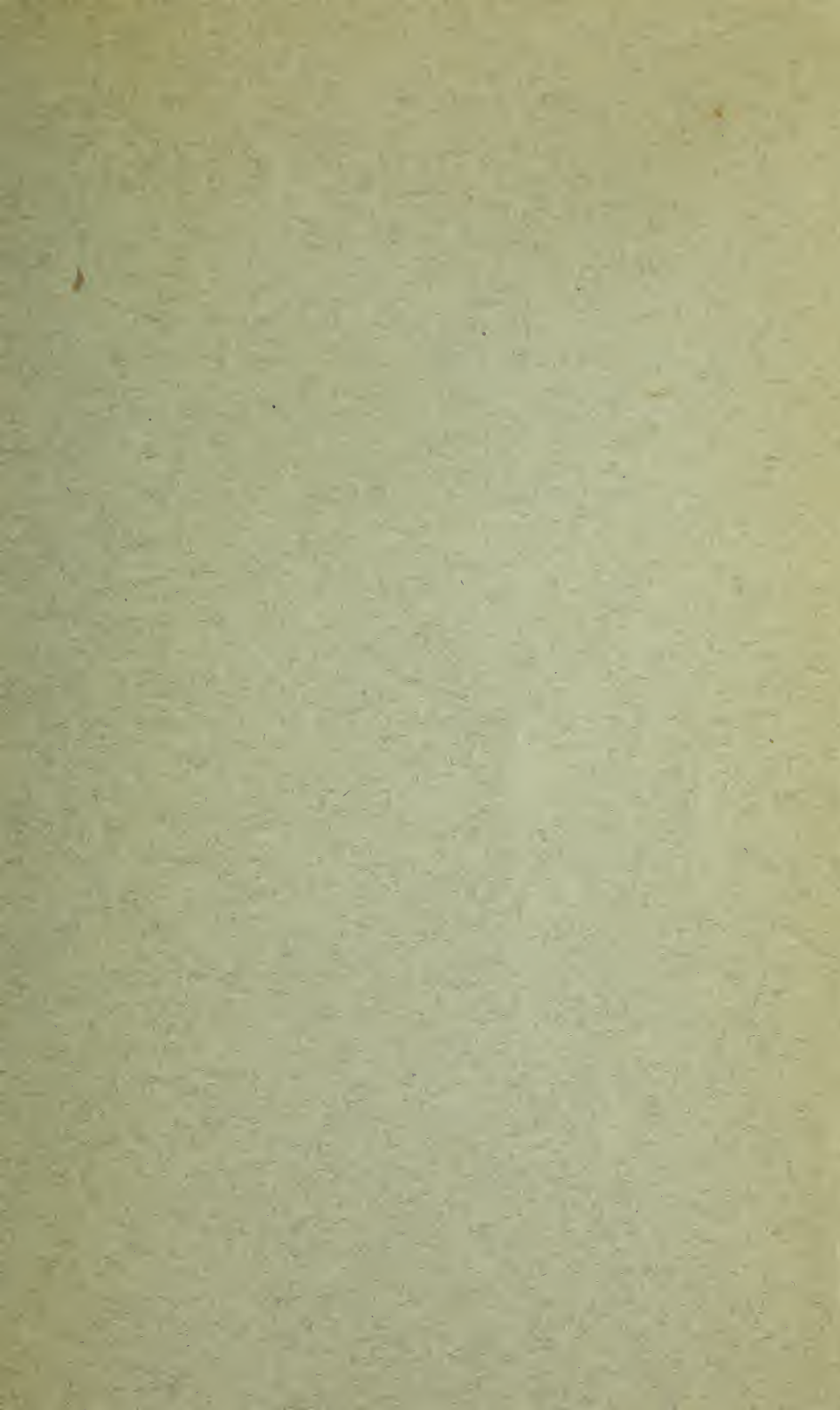
7. *Theory of Physical Education.*

Study of physiology of exercise, the importance of physical exercise in the school life of the child. Methods and practice in teaching of physical education for the primary and grammar grades. Gymnastics for schoolroom use, games, folk dances and story plays. Prerequisites: Courses 2, 3 and 6. Two hours credit.

8. *Theory of Physical Education.*

This course is intended primarily for those who wish to become teachers of physical education in high schools and colleges. Prerequisites: Courses 2, 3, 4, 5, 6 and 7. Two hours credit.

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